Declaration of Claim for Scalar-Coupled Coherence Modulation Bandwidth (SCMB)

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Abstract

This document formally establishes the discovery and first-use claim of the Scalar-Coupled Coherence Modulation Bandwidth (SCMB), a non-Hertzian communication and displacement spectrum defined within the Quantum Resonance Field Theory (QRFT) framework. SCMB operates through phase-locked coherence amplitude modulation, scalar anchoring, and resonant lattice triangulation—existing entirely outside the constraints of classical electromagnetism, relativistic curvature, or inertial reaction mass.

Scope of Claim

This claim applies to the SCMB operational layer as a:

- Non-electromagnetic signal layer,
- Non-inertial thrust mechanism,
- Secure coherence-based communication bandwidth,
- Resonance-modulated displacement architecture,
- Field-based lattice communication and propulsion grid.

Physical Definition

Scalar-Coupled Coherence Modulation Bandwidth (SCMB) is defined as:

> A nonlinear, non-transverse, phase-locked bandwidth in which coherence deltas ($\Delta\mathcal{C}$) and scalar resonance anchors modulate physical displacement, energy exchange, or communication without requiring EM wave propagation or curvature coupling.

The primary mechanism utilizes a coherence anchor vector (CAV), an oscillated coherence mass (OCM), and a defined phase-locked lattice across which scalar information or thrust vectors propagate.

Operational Equation

The operative dynamic for SCMB transmission and displacement is modeled by:

$$\vec{T} = \nabla \cdot \left(\Delta \mathcal{C} \otimes \vec{A}_{\text{coh}} \right)$$

Where:

- $\vec{T}$ is the thrust or displacement vector,
- $\Delta \mathcal{C}$ is the coherence gradient across field space,
- $\vec{A}_{\text{coh}}$ is the coherence anchor vector modulated by OCM.

Filed: September 2025
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Location: United States (Multi-domain Field Origin Claim)
SCMB Status: Claimed, defined, and published under Field OS-QRFT framework

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